

IN THE ABSTRACT:

The Abstract as amended below with a replacement Abstract shows added text with underlining and deleted text with ~~striketrough~~.

Please DELETE the Abstract in its entirety and substitute the attached new Abstract.

A wireless sensor incorporated bearing assembly includes a bearing ~~(1)~~ including a stationary race member ~~(3)~~ and a rotatable race member ~~(2)~~, a sensor unit ~~(9)~~ and a sensor unit mounting device ~~(30)~~ for removably mounting the sensor unit ~~(9)~~ on the stationary race member ~~(3)~~ of the bearing ~~(1)~~. The sensor unit ~~(9)~~ is of one-piece construction including a sensor section ~~(26)~~ for detecting a target of detection, a signal transmitting circuit ~~(29b)~~ and a transmitting antenna ~~(29a)~~. The sensor unit ~~(9)~~ includes, as an electric power supply section ~~(27)~~, a section that does not require wiring, for example, an electric power receiving section ~~(28)~~ for receiving receive an electric power by wirelessly, or a battery or electric power generator.